National 4 Lifeskills Mathematics
Practice Unit Assessment
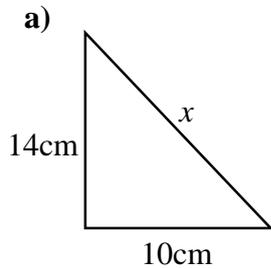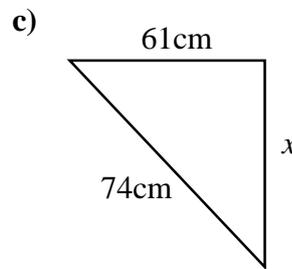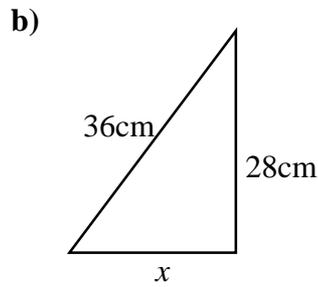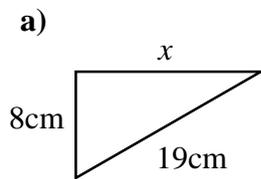### Geometry and Measures 3

1) Calculate the missing length x in these right-angled triangles.

a)

14cm
x
10cm

b)

x
4cm
7cm

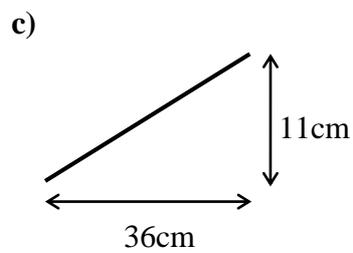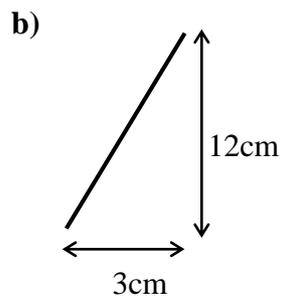**c)**

27cm
21cm
x

2) Calculate the missing length x in these right-angled triangles.

a)

8cm
x
19cm

b)

36cm
28cm
x

c)

61cm
74cm
x
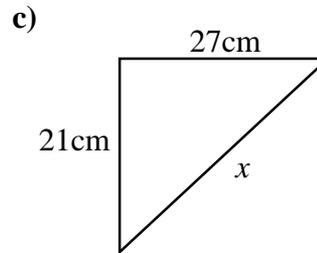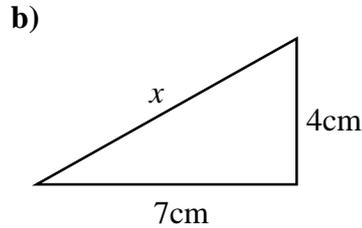
3) Calculate the gradient of these slopes.

a)

6cm
8cm

b)

12cm
3cm

c)

11cm
36cm
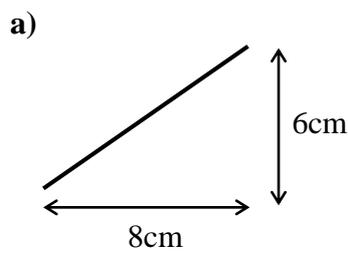
4) Which of the two slopes is steeper? Justify your answer.

slope 1
13cm
19cm
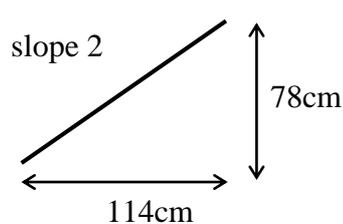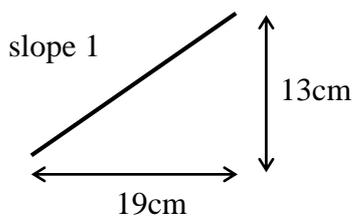
slope 2
78cm
114cm

5) Below is the cross section of a ski slope.

245m

h

188m
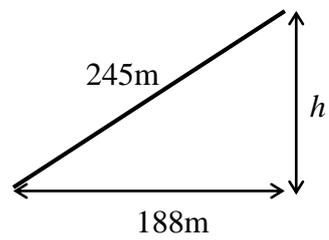
a) Calculate the height h of the ski slope.

b) If the gradient of a ski slope is more than $0{\cdot}85$ then it is regarded as being dangerous. Is the ski slope dangerous? Justify your answer.